

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"737191".ap.	US-PGPUB	OR	ON	2007/01/10 11:40
S2	1274	(710/8).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:25
S3	551	(710/72).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/31 13:21
S4	928	(710/62).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/19 14:05
S5	687	(710/10).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/20 14:48
S6	48	("6219736" "6219736" "6141708" "5245703" "5477476" "5625840" "5838935" "5875349" "5938742" "6023585" "6029209" "6122677" "6145019" "6173341" "6233638" "4373181" "4591973" "4970640" "5307462" "5355414" "5530897" "5535336" "5561813" "5579491" "5640592" "5664119" "5717903" "5724558" "5734847" "5802318" "5835760" "5848294" "5848277" "5848249" "5920733" "5920709" "5948091" "5950014" "5953516" "5996038" "6009480" "6014717" "6021498" "6029238" "6035346" "6035355" "6044411" "6061751" "6061751" "6119192").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:58
S7	48	("6126327" "6167463" "6182162" "6185647" "6192439" "6192481" "6195216" "6212588" "6212588" "6233625" "6246666" "6286057" "6292859" "6321279" "6349345" "6349347" "6357021" "6393492" "6397268" "6397316" "6401198" "6408394" "6446139" "6460093" "6466996" "6584511" "6633976" "6678770" "6804727" "5214785" "5933652" "4779189" "5245572" "5361343" "5420987" "5420998" "5448153" "5565757" "5668957" "5680556" "5765041" "5802393" "5884094" "6003017" "6145027" "6216191" "6216191" "6470026" "6477171" "6694430").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:58
S8	50	("6717477" "6845412" "4430704" "5561819" "5561821" "5781798" "6324644" "5379437" "5396654" "5867645" "6038621" "4378160" "4435781" "4589063" "4800523" "4821180" "5199105" "5220534" "5220659" "5222218" "5228130" "5247682" "5261107" "5291585" "5307475" "5317695" "5325527" "5357519" "5361365" "5371897" "5404524" "5442305" "5459867" "5465355" "5465360" "5495594" "5517638" "5535419" "5535415" "5542055" "5564033" "5576650" "5586268" "5586324" "5586327" "5598563" "5611078" "5615104" "5615401" "5619734").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/01 15:58
S9	1306	(710/8).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/19 15:46
S10	568	(710/72).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/19 15:46
S11	964	(710/62).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/19 15:46
S12	711	(710/10).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/19 15:46
S13	283	(S9 S10 S11 S12) AND (timeout (time adj out))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/19 15:46

## EAST Search History

S14	61	(S9 S10 S11 S12) AND (timeout (time adj out)) SAME (download transmit retrieve)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/19 15:46
S15	2	"6674013".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/19 16:22
S16	7374334	(init initializ\$5 boot\$3 connect\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:39
S17	55352	timeout (time adj out)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 09:54
S18	1539	S16 near2 S17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 09:57
S19	134916	poll\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 09:57
S20	24	(S16 near2 S17) SAME S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 09:58
S21	211	(send transmit) NEAR (timeout (time adj out)) NEAR (information data length time byte)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 11:09
S22	14	(send transmit) NEAR (timeout (time adj out)) NEAR (information data length byte)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 11:16
S23	57	(send transmit) NEAR2 (timeout (time adj out)) NEAR2 (information data length byte)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 12:07
S24	43	S23 NOT S22	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 11:17
S25	47	MultiMediaCard adj Association	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:20

## EAST Search History

S26	2	S25 and (timeout (time adj out))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 12:11
S27	41	S25 and (time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 12:15
S28	31	S25 and (S16 same time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 12:17
S29	18	("5367647"   "5535400"   "5586271"   "5598538"   "5634081"   "5640593"   "5721880"   "5845154"   "5961613"   "5968147"   "6035384"   "6058436"   "6061752").PN. OR ("6233625"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 12:58
S30	710	(timeout (time adj out)) near2 (register byte)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:21
S31	7374334	(init initializ\$5 boot\$3 connect\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:22
S32	174	((timeout (time adj out)) near2 (register byte)) SAME S31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:23
S33	41	S30 NEAR10 S31	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:23
S34	134916	poll\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:25
S35	3542	(initializ\$5 NEAR10 time) AND S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:26
S36	280	(initializ\$5 NEAR10 time) SAME S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:29
S37	210	(initializ\$5 NEAR5 time) SAME S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:29

## EAST Search History

S38	88	(initializ\$5 NEAR2 time) SAME S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:29
S39	0	(initializ\$5 NEAR2 time) SAME S34 SAME (memory adj card)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:29
S40	27	(initializ\$5 NEAR2 time) SAME S34 SAME (memory)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:36
S41	8	((initializ\$5 boot spin init) NEAR2 time) SAME S34 SAME (memory) NOT S40	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:37
S42	203	(710/17).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/20 14:46
S43	375	(710/19).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/20 14:46
S44	123	(710/46).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/20 14:49
S45	96	(S42 S43 S44) AND ((timeout (time adj out)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:50
S46	7	("5323393"   "5694618"   "5727135"   "5774678"   "5819015"   "6092078"   "6289371").PN. OR ("6950869").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 14:53
S47	1800	(time period) WITH (initializ\$5 configur\$5) WITH card	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:31
S48	95	(MMC SD SDIO MultiMedia\$1Card (secure adj digital)) AND S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:29
S49	13	(MMC SD SDIO MultiMedia\$1Card (secure adj digital)) SAME S47	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:31
S50	2148	(time period) WITH (initializ\$5 configur\$5 set\$1up boot start\$1up) WITH card	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:31
S51	17	(MMC SD SDIO MultiMedia\$1Card (secure adj digital)) SAME S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:36

## EAST Search History

S52	79	OCR same (time period) same register	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:43
S53	0	OCR same (time period) same register and S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:37
S54	1	OCR same (time period) same register SAME card	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:37
S55	2180	(OCR (operati\$3 adj condition adj register)) same (time period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:44
S56	13	(operati\$3 adj condition adj register) same (time period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:44
S57	249	MultiMedia\$1Card	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 15:55
S58	12	cmd1 same poll\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 16:25

## EAST Search History

S59	152	("4701841"   "4730251"   "4740916"   "4907162"   "4910655"   "4912627"   "4918598"   "4979173"   "4985920"   "4999787"   "5016223"   "5068894"   "5081667"   "5131091"   "5140595"   "5226006"   "5237609"   "5293424"   "5317505"   "5319705"   "5349649"   "5361005"   "5365045"   "5367149"   "5388083"   "5418752"   "5420412"   "5426432"   "5428685"   "5430859"   "5455721"   "5477103"   "5479638"   "5485595"   "5490117"   "5495422"   "5495594"   "5499242"   "5523724"   "5523979"   "5524362"   "5534801"   "5535368"   "5537360"   "5544335"   "5559965"   "5576910"   "5579502"   "5581708"   "5586306"   "5592641"   "5594686"   "5594874"   "5596526"   "5604880"   "5606660"   "5613096"   "5613130"   "5613135"   "5613159"   "5623637"   "5627416"   "5630170"   "5644750"   "5651116"   "5666412"   "5668760"   "5673316"   "5678021"   "5678056"   "5696775"   "5708715"   "5737742"   "5740358"   "5754890"   "5764761"   "5768043"   "5774546"   "5790796"   "5799171"   "5815426"   "5818350"   "5818781"   "5822245"   "5835935"   "5838614"   "5845313"   "5848438"   "5852617"   "5864568"   "5867428"   "5875415"   "5881252"   "5892824"   "5905885"   "5905993"   "5907856"   "5909596"   "5920197"   "5920731"   "5924113"   "5928370"   "5930815"   "5933026"   "5943481"   "5946714"   "5953737"   "5966720"   "6018265"   "6025966"   "6026293"   "6034897"   "6038400"   "6040997"   "6041001"   "6073205"   "6076137"   "6081878"   "6084483"   "6115785"   "6122195"   "6125435"   "6128695"   "6134151"   "6138180").PN. OR ("6141249"   "6144607"   "6145037"   "6145051"   "6151247"   "6172906"   "6173314"   "6175770"   "6182162"   "6202138"   "6223308"   "6230234"   "6262918"   "6266720"   "6266725"   "6314480"   "6327639"   "6339831"   "6360220"   "6374337"   "6393513"   "6397314"   "6404246"   "6411546"   "6462986"   "6484216"   "6490649").PN. OR ("6901457").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 16:27
S60	30	"5471564".uref.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:47
S61	1941580	time\$1out start\$1up configurat\$3 initializ\$5 boot\$3 spin\$1up	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 11:04
S62	75045	S61 SAME peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:49
S63	1930686	start\$1up configurat\$3 initializ\$5 boot\$3 spin\$1up	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:21
S64	45510	S63 NEAR2 time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:56
S65	310	S64 WITH peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:50

## EAST Search History

S66	119	S64 NEAR5 peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:51
S67	38	S64 NEAR2 peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:51
S68	23340	S63 NEAR2 (length period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:57
S69	52	S68 NEAR2 peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:57
S70	15296	S63 ADJ2 (length period)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:57
S71	93	(peripheral device) ADJ2 S70	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 10:57
S72	81	time\$1out NEAR2 peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 11:04
S73	43	time\$1out NEAR peripheral	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 11:04
S74	33	peripheral adj2 time\$1out	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/21 11:04
S75	6	("6073183" "6526501" "6895534" "6826706" "6477558" "5471564").pn.	USPAT	OR	ON	2005/12/22 09:57
S76	6	S75 and time	USPAT	OR	ON	2005/12/22 09:57
S77	4	S75 and time\$1out	USPAT	OR	ON	2005/12/22 09:57
S78	2	("4638428" "5081577").pn.	USPAT	OR	ON	2006/02/06 10:12
S79	17	("4038641"   "4053950"   "4177512").PN. OR ("4638428").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 10:23
S80	21	("3749897"   "4257095"   "4502038"   "4649479"   "4701848").PN. OR ("5081577").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/06 10:43
S81	8322953	(period length time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:20

## EAST Search History

S82	1958174	(start\$1up configurat\$3 initializ\$5 boot\$3 spin\$1up)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:21
S83	3505960	(memory flash storage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:22
S84	2927265	(card drive)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:22
S85	4517	(MultiMediaCard MMC Multi\$1Media\$1Card)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:22
S86	275	(S82 NEAR2 S81) SAME (S83 NEAR2 S84)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:28
S87	1333	(710/8).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S88	585	(710/72).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S89	990	(710/62).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S90	731	(710/10).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S91	205	(710/17).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S92	382	(710/19).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S93	126	(710/46).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/06 13:26
S94	3439	(S87 S88 S89 S90 S91 S92 S93)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:26
S95	9	S86 AND S94	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:26
S96	72	(S82 NEAR2 S81) NEAR10 (S83 NEAR2 S84)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:30



## EAST Search History

S97	0	"0689144".pn.	EPO	OR	ON	2006/02/06 13:59
S98	0	"0689144"	EPO	OR	ON	2006/02/06 13:57
S99	6	"0689144"	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:58
S10 0	0	EP0689144	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 13:58
S10 1	0	"95304276".ap.	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:00
S10 2	0	"0689144".pn.	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:00
S10 3	0	"95304276"	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:00
S10 4	4	"689144".pn.	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:10
S10 5	1	"5566351".pn.	EPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:11
S10 6	2	"5566351".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/06 14:11
S10 7	6025	(710/1,8,10,15,17,19,36,46,62,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 12:53
S10 8	7699074	(init initializ\$5 boot\$3 connect\$3 (spin near up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 12:54
S10 9	60213	timeout (time adj out)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:24
S11 0	10556465	peripheral device drive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:25
S11 1	7019096	time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:25
S11 2	271	S108 NEAR10 S109 NEAR10 S110 NEAR10 S111	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:25

## EAST Search History

S11 3	64	"L1" SAME S109 SAME S110 SAME S111	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:34
S11 4	16516	(initializ\$5 NEAR2 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:26
S11 5	3208	S108 SAME S109 SAME S110 SAME S111	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 13:34
S11 6	8934	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/19 14:10
S11 7	18	("5367647"   "5535400"   "5586271"   "5598538"   "5634081"   "5640593"   "5721880"   "5845154"   "5961613"   "5968147"   "6035384"   "6058436"   "6061752").PN. OR ("6233625"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:35
S11 8	34	S112 AND S116	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S11 9	48	("6219736" "6219736" "6141708" "5245703" "5477476" "5625840" "5838935" "5875349" "5938742" "6023585" "6029209" "6122677" "6145019" "6173341" "6233638" "4373181" "4591973" "4970640" "5307462" "5355414" "5530897" "5535336" "5561813" "5579491" "5640592" "5664119" "5717903" "5724558" "5734847" "5802318" "5835760" "5848294" "5848277" "5848249" "5920733" "5920709" "5948091" "5950014" "5953516" "5996038" "6009480" "6014717" "6021498" "6029238" "6035346" "6035355" "6044411" "6061751" "6061751" "6119192" ).pn.	US-PGPUB; USPAT	OR	ON	2006/07/18 14:01
S12 0	3710	spin near up	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:30
S12 1	59	S120 AND S116	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S12 2	2087576	combin\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:09
S12 3	39	(S120 WITH S122)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:21

## EAST Search History

S12 4	4047661	(parallel\$3 simultaneous\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:21
S12 5	214	S124 WITH S120	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:22
S12 6	50	S125 SAME S111	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:27
S12 7	2408	compar\$3 WITH (S108 near\$3 S111)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:30
S12 8	3759498	(spin\$3 spun rotat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:30
S12 9	462	compar\$3 WITH (S128 near S111)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:31
S13 0	771	compar\$3 near\$3 (time period duration) near\$3 (spin\$7 rotat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:37
S13 1	159	S130 same (peripheral drive dis\$2 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:35
S13 2	1	S116 and S131	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:35
S13 3	969	compar\$3 near\$3 (time period duration) near\$3 (spin\$7 rotat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:36
S13 4	324	compar\$3 with (time period duration) near\$3 (spin\$7 rotat\$3) with (peripheral drive dis\$2 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:38
S13 5	3	S134 same initial\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/18 14:38

## EAST Search History

S13 8	113	(open NEAR drain NEAR mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:34
S13 9	5	S138 WITH transmit\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:36
S14 0	6535914	combin\$3 add\$3 sum\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:36
S14 1	903153	ready start?1up (start near up) spin\$1up (spin near up) boot\$3 initializ\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:37
S14 2	7392843	time period	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:38
S14 3	4108	S140 WITH S141 WITH S142	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:39
S14 4	4638835	(peripheral drive dis\$2 platter)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:40
S14 5	255	S143 SAME S144	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 13:40
S14 6	13	((KIMMO) near2 (MYLLY)).INV.	US-PGPUB; USPAT	OR	ON	2006/07/19 13:43
S14 7	4	((JANI) near2 (HYVONEN)).INV.	US-PGPUB; USPAT	OR	ON	2006/07/19 13:43
S14 8	10	((MARKO) near2 (AHVENAINEN)).INV.	US-PGPUB; USPAT	OR	ON	2006/07/19 13:43
S14 9	2069	(713/322,501,502).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/20 15:30
S15 0	7699074	(init initializ\$5 boot\$3 connect\$3 (spin near up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S15 1	60213	timeout (time adj out)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11

## EAST Search History

S15 2	10556465	peripheral device drive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S15 3	7019096	time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S15 4	271	S150 NEAR10 S151 NEAR10 S152 NEAR10 S153	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S15 5	3	S154 AND S149	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S15 6	3710	spin near up	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:11
S15 7	42	S156 AND S149	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S15 8	37	(maximum NEAR2 timeout) AND (memory near card)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/19 14:33
S16 0	1	"6964018".pn.	USPAT	OR	ON	2006/07/20 10:02
S16 1	10	(open NEAR drain NEAR mode) WITH (transmit\$4 transfer\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:24
S16 2	1	(open NEAR drain NEAR mode) SAME (SCSI)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:24
S16 3	1003	(713/330,324).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/20 15:33
S16 4	7703169	(init initializ\$5 boot\$3 connect\$3 (spin near up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33

## EAST Search History

S16 5	60296	timeout (time adj out)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S16 6	10560923	peripheral device drive	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S16 7	7023689	time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S16 8	271	S164 NEAR10 S165 NEAR10 S166 NEAR10 S167	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S16 9	11	S168 AND S163	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S17 0	3715	spin near up	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:33
S17 1	28	S170 AND S163	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/20 15:41
S17 2	1	"5424903".pn.	USPAT	OR	ON	2007/01/03 11:32
S17 3	43	("3984699"   "4153936"   "4213059"   "4520274"   "4674031"   "4719364"   "4736116"   "4769555"   "4890212"   "5278771"   "Re33134").PN. OR ("5424903").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/03 11:32
S17 4	909	(max maximum) NEAR2 (time\$1out (time ADJ out))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:38
S17 5	9680	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/03 12:19
S17 6	14	S174 AND S175	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:20

## EAST Search History

S17 7	63	(max maximum) NEAR2 (time\$1out (time ADJ out)) WITH (peripheral device)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:40
S17 8	7962690	(init initializ\$5 boot\$3 connect\$3 power\$1up (power ADJ up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:38
S17 9	63104	(time\$1out (time ADJ out))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:40
S18 0	12	(max maximum) NEAR2 S178 NEAR2 S179	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:00
S18 1	172	(max maximum) WITH S178 WITH S179	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:41
S18 2	5	S181 AND S175	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 11:45
S18 3	1270	(max maximum) NEAR2 (idle spin\$1up (spin ADJ up))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:00
S18 4	357	S183 WITH (time delay)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:01
S18 5	4	S184 AND S175	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:01
S18 6	14	("5367647"   "5535400"   "5586271"   "5598538"   "5634081"   "5640593"   "5721880"   "5845154"   "5961613"   "5968147"   "6035384"   "6058436"   "6061752"   "6233693").PN. OR ("6408394").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/03 12:03
S18 7	240	combin\$3 NEAR2 S178 NEAR2 (time length)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:16

## EAST Search History

S18 8	5	S187 AND S175	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:19
S18 9	18260	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2,300-340,500-503,600-601)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/03 12:19
S19 0	5	S187 AND S189	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:19
S19 1	41	S174 AND S189	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:24
S19 2	21	S183 AND S189	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:24
S19 3	1196	determin\$3 WITH (maximum max) WITH S178 WITH time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:36
S19 4	20	S193 AND S189	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 12:40
S19 5	60	determin\$3 NEAR4 (maximum max) NEAR4 S178 NEAR4 time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:39
S19 6	6	determin\$3 NEAR4 (maximum max) NEAR4 S178 NEAR4 (clock)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:35
S19 7	116	determin\$3 WITH (maximum max) WITH S178 WITH clock	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:37



## EAST Search History

S19 8	8523495	(init initializ\$5 boot\$3 connect\$3 power\$1up (power ADJ up) start start\$1up (start ADJ up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:39
S19 9	142	determin\$3 NEAR4 (maximum max) NEAR4 S198 NEAR4 time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:40
S20 0	18260	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2,300-340, 500-503,600-601)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/03 14:41
S20 1	6	S199 AND S200	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:42
S20 2	7962690	(init initializ\$5 boot\$3 connect\$3 power\$1up (power ADJ up))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:43
S20 3	60	determin\$3 NEAR4 (maximum max) NEAR4 S202 NEAR4 time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:43
S20 4	82	S199 NOT S203	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 14:44
S20 5	7	("4638428" "5081577" "5424903" "5566351" "5701514" "623 3625" "6964018").PN.	US-PGPUB; USPAT	OR	ON	2007/01/03 14:51
S20 6	2	combin\$3 WITH (clock time) WITH (maximum max most) WITH (initializ\$5) WITH (peripheral device)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 15:58
S20 7	8	combin\$3 WITH (clock time) WITH (maximum max most) WITH (initializ\$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 15:58
S20 8	115	(clock time) WITH (maximum max most) WITH (initializ\$5) WITH (peripheral device)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 15:59

## EAST Search History

S20 9	117	((card peripheral device) near3 time\$1out) same ((initializ\$5 boot\$3 start\$3 power\$3) near3 (time length period cycle))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 16:17
S21 0	24	S209 AND S200	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/03 16:17
S21 1	0	("2005/0132092").URPN.	USPAT	OR	ON	2007/01/03 16:29
S21 2	0	(09/850441).APP.	USPAT; USOCR	OR	ON	2007/01/03 16:30
S21 3	1	("2002/0163760").URPN.	USPAT	OR	ON	2007/01/03 16:30
S21 4	4	("6154852" "6263454" "6701450" "6744595").PN.	US-PGPUB; USPAT	OR	ON	2007/01/03 16:31
S21 5	3667	(great\$3 long\$3 larg\$3) NEAR4 ((time ADJ out) time\$1out)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:38
S21 6	290	S215 WITH (peripheral device card)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 09:24
S21 7	18313	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2,300-340, 500-503,600-601)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/04 09:24
S21 8	17	S216 AND S217	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 09:36
S21 9	17	("4268906"   "5129064"   "5671365"   "5740467"   "5761427"   "5875343"   "5881296"   "5892969"   "6006340"   "6055603"   "6085277"   "6138176").PN. OR ("6434630").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/04 09:31
S22 0	155	S215 AND S217	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 09:37
S22 1	138	S220 NOT S218	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 09:37

## EAST Search History

S22 2	124	S221 AND @ay<="2003"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 09:38
S22 3	8545	(spin spin\$1up (spin ADJ up)) NEAR2 (time cycle length)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:29
S22 4	1903949	max maximum	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:25
S22 5	202	S223 WITH S224	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:25
S22 6	70	S223 NEAR3 S224	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:28
S22 7	8	S225 AND S217	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:25
S22 8	619	(spin\$1up (spin ADJ up)) NEAR2 (time cycle length)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:29
S22 9	30	S228 WITH S224	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:34
S23 0	146	(great\$3 long\$3 larg\$3) WITH S228	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:38
S23 1	66	(great\$3 long\$3 larg\$3) NEAR3 S228	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 10:38

## EAST Search History

S23 2	49	("4430704" "5561819" "5561821" "5781798" "6324644" "5245703" "5379437" "5396654" "5477476" "5867645" "5875349" "5938742" "6023585" "6029209" "6038621" "6141708" "6145019" "6219736" "6219736" "4373181" "4378160" "4435781" "4589063" "4591973" "4800523" "4821180" "4970640" "5199105" "5220534" "5220659" "5222218" "5228130" "5247682" "5261107" "5291585" "5307462" "5307475" "5317695" "5325527" "5355414" "5357519" "5361365" "5371897" "5404524" "5442305" "5459867" "5465355" "5465360" "5495594" "5517638" ).pn.	USPAT	OR	ON	2007/01/05 15:12
S23 3	4551	wire\$2 ADJ "or"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:16
S23 4	633	S233 WITH bus	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:16
S23 5	1	S234 SAME timeout	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:17
S23 6	171	S234 SAME time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:17
S23 7	51	S234 WITH time	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 12:17
S23 8	18313	((710/1,8,10,15,17,19,36,46,62,72) or (713/1,2,300-340, 500-503,600-601)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/08 16:40
S23 9	4551	wire\$2 ADJ "or"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:40
S24 0	633	S239 WITH bus	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:40
S24 1	32	S240 AND S238	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:40

## EAST Search History

S24 2	2191806	combin\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:41
S24 3	181	S239 WITH S242	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:41
S24 4	12	S243 WITH bus	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/08 16:41